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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/697,457	10/30/2003	Craig M. Perlov	10005727-8	7988
7590 06/30/2005			EXAMINER	
HEWLETT-PACKARD COMPANY			GUERRERO, MARIA F	
Intellectual Property Administration P.O. Box 272400 Fort Collins, CO 80527-2400			ADTIBUT	DARED MINADED
			ART UNIT	PAPER NUMBER
			2822	
			DATE MAILED: 06/30/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/697,457	PERLOV ET AL.				
Office Action Summary	Examiner	Art Unit				
	Maria Guerrero	2822				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nety filed s will be considered timety. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 06 Ap	oril 2005.					
	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>19-30</u> is/are pending in the application.						
• • • • • • • • • • • • • • • • • • • •	4a) Of the above claim(s) is/are withdrawn from consideration.					
)⊠ Claim(s) <u>30</u> is/are allowed.						
6)⊠ Claim(s) <u>19-20 and 22-29</u> is/are rejected.	☑ Claim(s) <u>19-20 and 22-29</u> is/are rejected.					
7)⊠ Claim(s) <u>21</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner	•					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the d						
Replacement drawing sheet(s) including the correction	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents	have been received. have been received in Application	on No				
3. Copies of the certified copies of the priori		d in this National Stage				
application from the International Bureau						
* See the attached detailed Office action for a list of the control of the contro	of the certified copies not received	d.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary (
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te atent Application (PTO-152)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	Acin Application (FTO-192)				

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DETAILED ACTION

1. This Office Action is in response the amendment filed April 6, 2005.

Status of Claims

2. Claims 1-18 are canceled. Claims 19-30 are pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 19-20 and 22-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Smith et al. (U.S. 5,224,023).

Smith et al. shows assembling a common substrate having multiple sections (Abstract). Smith et al. teaches constructing at least one fold line on the substrate to separate the multiple sections (Fig. 1-2, col. 1, lines 35-45). Smith et al. discloses fabricating memory structure on at least two sections of the substrate (Abstract, col. 4, lines 10-15). Smith et al. shows folding the substrate along the fold line to stack the multiple sections on top of each other and align the memory structure on adjacent folded sections to form at least one operable electrical device (Abstract). The memory structures interacting with each other is considered to be inherent from the disclosure because Smith recites this invention relates to the art of electronic circuit packaging and more specifically to the packaging of high density integrated circuits on groups of printed circuit boards plugged into a motherboard (col. 1, lines 5-10). Smith describes

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the assembly of modern high-speed memory modules requires the grouping of integrated circuit packages in a closely interconnect configuration (Abstract, col. 1, lines 10-45).

Smith et al. teaches including conductor grids perpendicular to each other (Fig. 1-3, col. 2, lines 1-68), col. 1, lines 58-678, col. 2, lines 1-20). Smith et al. discloses applying multiple aligned perforations and forming threes separate sections capable of folding to a stacked layer configuration (Fig. 1-3, col. 2, lines 1-25). Smith et al. shows the sections being folded so that a center section of the substrate becomes a center layer of the folded sections and two fold lines are parallel to each other and at least two fold line are not parallel to each other (Fig. 1-3,col. 2, lines 1-20).

In addition, the elements must be arranged as required by the claim, but this is not an ipsissimis verbis test, i.e., identity of terminology is not required. In re Bond, 910 F.2d 831, 15 USPQ2d 1566 (Fed. Cir. 1990).

Allowable Subject Matter

4. Claim 30 is allowed.

Claim 21 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 30. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

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Response to Arguments

5. Applicant's arguments filed April 6, 2005 have been fully considered but they are not persuasive. Claims 19-20 and 22-29 stand rejected.

- 6. Applicant argued that Smith does not disclose any interaction of the electrical structures. However, The memory structures interacting with each other is considered to be inherent from the disclosure because Smith recites this invention relates to the art of electronic circuit packaging and more specifically to the packaging of high density integrated circuits on groups of printed circuit boards plugged into a motherboard (col. 1, lines 5-10). Smith describes the assembly of modern high-speed memory modules requires the grouping of integrated circuit packages in a closely interconnect configuration (col. 1, lines 10-45).
- 7. There is no requirement that a person of ordinary skill in the art would have recognized the inherent disclosure at the time of invention, but only that the subject matter is in fact inherent in the prior art reference. Schering Corp. v. Geneva Pharm. Inc., 339 F.3d 1373, 1377, 67 USPQ2d 1664, 1668 (Fed. Cir. 2003). See also Toro Co. v. Deere & Co., 355 F.3d 1313, 1320, 69 USPQ2d 1584, 1590 (Fed. Cir. 2004)(" The fact that a characteristic is a necessary feature or result of a prior-art embodiment (that is itself sufficiently described and enabled) is enough for inherent anticipation, even if that fact was unknown at the time of the prior invention."); Abbott Labs v. Geneva Pharms., Inc., 182 F.3d 1315, 1319, 51 USPQ2d 1307, 1310 (Fed.Cir.1999).

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8. Furthermore, during patent examination, the pending claims must be "given *>their< broadest reasonable interpretation consistent with the specification." > In re Hyatt, 211 F.3d 1367, 1372, 54 USPQ2d 1664, 1667 (Fed. Cir. 2000). While the claims of issued patents are interpreted in light of the specification, prosecution history, prior art and other claims, this is not the mode of claim interpretation to be applied during examination. During examination, the claims must be interpreted as broadly as their terms reasonably allow. > In re American Academy of Science Tech Center, F.3d, 2004 WL 1067528 (Fed. Cir. May 13, 2004) (The USPTO uses a different standard for construing claims than that used by district courts; during examination the USPTO must give claims their broadest reasonable interpretation.) < This means that the words of the claim must be given their plain meaning unless applicant has provided a clear definition in the specification. In re Zletz, 893 F.2d 319, 321, 13 USPQ2d 1320, 1322 (Fed. Cir. 1989) >; Chef America, Inc. v. Lamb-Weston, Inc., 358 F.3d 1371, 1372, 69 USPQ2d 1857 (Fed. Cir. 2004). There is not evidence of any special definition to the terms recited on the claims; therefore, the claims have been interpreted according to plain meaning and giving the broadest reasonable interpretation.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maria Guerrero whose telephone number is 571-272-1837.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

June 24, 2005

MARIA F. QUERRERO PRIMARY EXAMINER